

D. Kruse

Re-run

#4



## RAW SEQUENCE LISTING

DATE: 01/14/2003

PATENT APPLICATION: US/09/954,773A

TIME: 14:52:26

Input Set : N:\paola\US09954773A.raw

Output Set: N:\CRF4\01142003\I954773A.raw

```

1 <110> APPLICANT: Southern Illinois University
2     Lightfoot, David A
3     Gibson, Paul T
4     Meksem, Khalid
5 <120> TITLE OF INVENTION: SOYBEAN SUDDEN DEATH SYNDROME RESISTANT SOYBEANS, SOYBEAN
CYST NEMATODE
6     RESISTANT SOYBEANS AND METHODS OF BREEDING AND IDENTIFYING RESISTANT PLANTS
7 <130> FILE REFERENCE: 1268/2/2
C--> 8 <140> CURRENT APPLICATION NUMBER: US/09/954,773A
9 <141> CURRENT FILING DATE: 2002-01-22
10 <150> PRIOR APPLICATION NUMBER: 09/007,119
11 <151> PRIOR FILING DATE: 1998-01-14
12 <160> NUMBER OF SEQ ID NOS: 20
13 <170> SOFTWARE: PatentIn version 3.1
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 527
17 <212> TYPE: DNA
18 <213> ORGANISM: Glycine max
19 <220> FEATURE:
20 <221> NAME/KEY: misc_feature
21 <222> LOCATION: (1)..(527)
22 <223> OTHER INFORMATION: n is a, c, g, or t/u
23 <400> SEQUENCE: 1
24     tgttctagat agttcgcaat tcaatcaaat ttcccaatta taattgaata aaaagattca      60
25     tgaaatcagg tgatcaagcg aaaaataagc attaagcgta gaagagaagc aataacattt      120
26     ttttattaaa taataaaaaga gtaattacat aaaaatatgt tcgattacat taaaccccaa      180
27     caaaggatga atttagcttc tcatgacctt ggggaaaatc aaacttgatg aacaagaaga      240
28     tgaagaagaa tccttaagga taaacactgc ctagctccaa tgtgctctct agtattttat      300
29     ctttcaaaaa tccccaagaa cccctaattt tcagtaagaa gcccatTTTC aatcagaagc      360
30     ccattttcaa tcaagaagcc cattttcaat cagaagccca ttttcaatca gaagcccatt      420
31     ttcaatcaga agcccatttt caatcagaag cccattttat aattgtattc ccaaaacttg      480
32     agattcttga acgtaaatta ttagtaaatt gtaatcacct ctgtaaa      527
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 815
36 <212> TYPE: DNA
37 <213> ORGANISM: Glycine max
38 <220> FEATURE:
39 <221> NAME/KEY: misc_feature
40 <222> LOCATION: (1)..(815)
41 <223> OTHER INFORMATION: n is a, c, g, or t/u
42 <400> SEQUENCE: 2
43     atgattacgc caagctattt aggtgacact actagaatac tcaagctatg catccaacgc      60
44     gttgggagct ctcccatatg gtcgacctgc aggcggccgc actagtattt cagaagccca      120
45     aaggaacag caataagtaa tcccttgttt ataagatccc agaacttcca gtttatttaa      180

```

ENTERED

## RAW SEQUENCE LISTING

DATE: 01/14/2003

PATENT APPLICATION: US/09/954,773A

TIME: 14:52:26

Input Set : N:\paola\US09954773A.raw

Output Set: N:\CRF4\01142003\I954773A.raw

```

46      tgaaaatgca ataacatcgg ctagtttcac aagtaatata caaatcggaa catcacattg      240
47      actacaatat atagtacata aattaacact aagaaacctc cttgatttga tattatgcat      300
48      ttacctatgt tgttccacaa gaatatactc aaatgacttt gccttgattt aaattatcac      360
W--> 49      gatgtaacac aaacaaagat gatantttgt cgatcaactg ttcagcacca agagagccct      420
W--> 50      cccacacaat aactcagggt ttcacttttg gtgcttgaaa atgagtggca catgnaaaag      480
W--> 51      caagagtcnt ctttgacaaa tgtgcctgcc ganagttatc antacttact aacaagataa      540
W--> 52      tgagccaaaa catcatctgg gncatcaacc ttcatgnctt tntcaagttt atacctatna      600
W--> 53      ntnactangt cttatatttn canntggtga ttacanttac nantaagttt agcttnaaga      660
W--> 54      aatncaagtt ttngggactc catgcctngn cnggntttcn natccgtcgg ccagggcggn      720
W--> 55      cnggncact gntnggnagn cccanttnen cagancacng ncccntttcc attccnggnc      780
W--> 56      cntcncttc aangacngcc ggngaaancn ngggt      815

58 <210> SEQ ID NO: 3
59 <211> LENGTH: 435
60 <212> TYPE: DNA
61 <213> ORGANISM: Glycine max
62 <220> FEATURE:
63 <221> NAME/KEY: misc_feature
64 <222> LOCATION: (1)..(435)
65 <223> OTHER INFORMATION: n is a, c, g, or t/u
66 <400> SEQUENCE: 3
67      gcagatgtaa ctgttccac aatatctaatt attctagttc tagatgaaaa tatttttttc      60
68      ccatagcaag caaagtatgg atttgtcatt ttccagagac gaagaactct caacaaacat      120
69      gtttatagta acttcattgc aaaactcaac aaatagattt ttggaacctt aatataataa      180
70      aattcaacag tcttctttaa ttttattctg ctcttacctt ctcataggat catatagaat      240
71      ttaaccctac aagctctcaa aaaacaatcc attattatgc tccttatcca ataaaaacaaa      300
W--> 72      accatagagt gattctcaaa atgaagattg acaaaggcaa aaagttatgc tggntcaata      360
W--> 73      gcttctttat aattntcttc atcttgccc ntccngcct tagnggtct ccattgtcaa      420
W--> 74      tccaaaggtn ntcgn      435

76 <210> SEQ ID NO: 4
77 <211> LENGTH: 183
78 <212> TYPE: DNA
79 <213> ORGANISM: Glycine max
80 <220> FEATURE:
81 <221> NAME/KEY: misc_feature
82 <222> LOCATION: (1)..(183)
83 <223> OTHER INFORMATION: n is a, c, g, or t/u
84 <400> SEQUENCE: 4
W--> 85      ggtaccggg gatcctctag agtcgacctg cagggaggcg aatgtnatgt tganctttgc      60
86      tcgctcatat ggccttacag gggttgccga attagtgtga aggtaattcg gtaaattgat      120
W--> 87      aatattgtat tcatttnata tttnatgatg ttacaagtn c aaggnataa ctgatgcctg      180
88      agt      183

90 <210> SEQ ID NO: 5
91 <211> LENGTH: 499
92 <212> TYPE: DNA
93 <213> ORGANISM: Glycine max
94 <220> FEATURE:
95 <221> NAME/KEY: misc_feature
96 <222> LOCATION: (1)..(499)
97 <223> OTHER INFORMATION: n is a, c, g, or t/u

```

## RAW SEQUENCE LISTING

DATE: 01/14/2003

PATENT APPLICATION: US/09/954,773A

TIME: 14:52:26

Input Set : N:\paola\US09954773A.raw

Output Set: N:\CRF4\01142003\I954773A.raw

```

98 <400> SEQUENCE: 5
99      caggtagaca aatctgatgg tactgaagtt ggtcatacaa ttaaaaagtt ccctctttta      60
W--> 100      aagcccagag aatatgtgct agcttggaag tngtgggagg ggagtgatga aacattttac      120
101      tgttttatga aggtaataca ccaattatta tggttttttg ttttaataaaa tgtgaataat      180
102      tgtcaatcgt gattgcatta tctctccttt actctgtctc ttcacctttt ttaccttttt      240
103      atttgagagg aagaatccat gtagtaaaaa atgatgataa aattgttaga aaatatagtg      300
104      tcatgttaatt agagattcag attataaactt agaagacact attattttca tgtataacta      360
105      tccacgggta attatcaata ctgacatatt ttcactcaaa atattctggg tttctcatta      420
W--> 106      tatacattta aataggagct attanccatt gcaagcttgg gtttggaggc cttccgatgc      480
W--> 107      cttgttggga ttngnacca                                     499
109 <210> SEQ ID NO: 6
110 <211> LENGTH: 500
111 <212> TYPE: DNA
112 <213> ORGANISM: Glycine max
113 <220> FEATURE:
114 <221> NAME/KEY: misc_feature
115 <222> LOCATION: (1)..(500)
116 <223> OTHER INFORMATION: n is a, c, g, or t/u
117 <400> SEQUENCE: 6
W--> 118      nagncagggg acccacacat acagacaatt aaaaccgttg gatgaaaatc atactactca      60
W--> 119      taaattgaaa atatatacgt aaganccttca tctaacagtg ctagtcgaag aatgcgtaaa      120
W--> 120      tgcagggnat ccatttccat actaaaatgg acaaaactta tatttttttt ttagcggcaa      180
W--> 121      acgttaatta ttaatttttt ttagtacaag ggatcaaacc angaccttcc ccttctttcc      240
122      atctttcttg accacccaac caaccttata tctccacaaa acttattata tgttgttctt      300
W--> 123      cggggactat cagaattgga gtttaacctc gggcantcaa tctacataat ccttgatttn      360
W--> 124      atttngtgaa gttctaaagc cacaggcatt atttatntta ttntttctgn agtaaccnc      420
W--> 125      catatgttgg tnnataaggg tangnatnaa aatncttgg ntggtnnena tttgcncttn      480
W--> 126      cnaggccggg gatggntttt                                     500
128 <210> SEQ ID NO: 7
129 <211> LENGTH: 189
130 <212> TYPE: DNA
131 <213> ORGANISM: Glycine max
132 <220> FEATURE:
133 <221> NAME/KEY: misc_feature
134 <222> LOCATION: (1)..(189)
135 <223> OTHER INFORMATION: n is a, c, g, or t/u
136 <400> SEQUENCE: 7
W--> 137      nnacaanana ncaggggatc ctctagagtc gacctgcagt gatactagaa ctnaatgaac      60
W--> 138      agggagagag agagagagag aganantnaa nataacgatg aagctctccc tattgacggt      120
W--> 139      gttcattgta gcaatagcat cgttatctct tattattgct ggttcatcat natctcaatt      180
140      ccagtggca                                     189
142 <210> SEQ ID NO: 8
143 <211> LENGTH: 724
144 <212> TYPE: DNA
145 <213> ORGANISM: Glycine max
146 <220> FEATURE:
147 <221> NAME/KEY: misc_feature
148 <222> LOCATION: (1)..(724)
149 <223> OTHER INFORMATION: n is a, c, g, or t

```

## RAW SEQUENCE LISTING

DATE: 01/14/2003

PATENT APPLICATION: US/09/954,773A

TIME: 14:52:26

Input Set : N:\paola\US09954773A.raw

Output Set: N:\CRF4\01142003\I954773A.raw

```

150 <400> SEQUENCE: 8
151      aattttttat ataagttgca aaatttaggg acttatttat tattaaatta tttgtaggga      60
152      ctaatttatc atattttttg tatattcagg aattaaattt aatttttcat ctttcaatac      120
153      taacttatta acgtttcaca ttttcaaaga cgagtctagc tatttataat tttttttcct      180
154      aaaatatatt ttttgccttc ataaatatga aaatatatta aattcgttcc taattttttt      240
155      ttcaaagcat ctttccttct cacaaaattg aaatgtatca ttttttttg ttcaaaagtt      300
156      taaataaatt tgaacctaat atgacatttt atatcggtta tacatataac tgatataaac      360
157      atcaagtttt ttatatcaat gatacctata actgatatca aatgtgacaa ttatatatat      420
158      aattaatgta aaaaagtcac aaatataatt tattttgagt caaaaaataa tatattttta      480
W--> 159      ttattttgaa gatgaaaaag gataaattta aaacatttgt gtgangatga aaaactagat      540
160      gttttttttc ctggttttaa tgcaaaacca atgctatttt atttaaattt tacctttttt      600
W--> 161      ttataattac nccacaaaaa aaaccgtttg tgttacaaat ttganttaa tctctntgtt      660
W--> 162      tattaaaaag ananattaat tnggaanggt ctttttnaaa acnctncngt cnantaacna      720
163      atct                                                                                          724
165 <210> SEQ ID NO: 9
166 <211> LENGTH: 801
167 <212> TYPE: DNA
168 <213> ORGANISM: Glycine max
169 <220> FEATURE:
170 <221> NAME/KEY: misc_feature
171 <222> LOCATION: (1)..(801)
172 <223> OTHER INFORMATION: n is a, c, g, or t
173 <400> SEQUENCE: 9
W--> 174      acgccagtga ntgtaatacg actcctatag ggcgaattgg ccaagtcggc cgagctcgaa      60
175      ttcgctcgacc tcgagggatc acgctaataa tatattatta atcaactgct tcaatagagt      120
176      gcacacaccc tatctttcat aaaattacta cactttttta tttttgtaat aaaaaaccta      180
177      gaaaaactca ttatgaaaca gatgatgtac ttttaacact ctgtcggcct ctctctctct      240
178      attatatatt gatttaaaatt tattgagaat tatatttttg ttgggtctca tttattatat      300
179      tttattaatt ggatccgggc cctctagatg cggccgcatg cataagcttg agtattctat      360
180      agtgtcacct aaatagcttg gcgtaatcat ggtcatagct gtttcctgtg tgaaattggt      420
W--> 181      atccgctcac aattccacac aacatacgag ccggaagcat aaagtgtnaa gcctggggtn      480
W--> 182      cctaattgagt gagctaactc acattaattg ccttgcgctc actgccgctt ttccagtcng      540
W--> 183      gaaacctgtc ctgccagctg cattaatgaa tngccaacc cncggggana agcngtttgc      600
W--> 184      ntatgggcgc tcttnccgct tcctcgctca ntgactcgct gcgctengtc nttcngntgc      660
W--> 185      cgcgaaacgt atcanncnac tcnaangnng taaatacggg tatccacna accnngggga      720
W--> 186      naaccnngga aaaaacatgt nanccaaaag gccnccaaa ggcangaaa cnttnaaaag      780
W--> 187      gccnnttgc ttgncttnt n                                                                                          801
189 <210> SEQ ID NO: 10
190 <211> LENGTH: 809
191 <212> TYPE: DNA
192 <213> ORGANISM: Glycine max
193 <220> FEATURE:
194 <221> NAME/KEY: misc_feature
195 <222> LOCATION: (1)..(809)
196 <223> OTHER INFORMATION: n is a, c, g, or t
197 <400> SEQUENCE: 10
W--> 198      nnnnnnttgt aaacgacgca gtgaatgtat acgaccacta tagggcaatg gccaagtcgg      60
199      ccgagctcga attcgctgac ctcgagggat ctttttatgt tggtagctac tgtaatatca      120
200      tcttgtaact ttaactttta agtcatactc ctttggact catatataag caaaagagtg      180

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/954,773A

DATE: 01/14/2003

TIME: 14:52:26

Input Set : N:\paola\US09954773A.raw

Output Set: N:\CRF4\01142003\I954773A.raw

```

201      gtcttgatg  tgggacttaa  atataagcaa  atctaactaa  ttttgccta  ttttaacttt  240
202      tcattcctaa  aacacccttc  atttaattct  aattctatct  ccaataactc  ttttttatct  300
203      atgataacaa  gttccaatga  aggacatttt  agaaataacc  ttatttttta  tttgagatta  360
204      gtaaaattaa  atgatgtgaa  ctaactttct  taattaatgt  gaaattagtt  attttttctt  420
205      atatacgagt  ccaaaggagg  taccaaattt  cacaaatgta  ctaaaatgta  ttatatgctt  480
W--> 206      ctttttaatt  catctttgct  gcatanctac  ttagctactg  tgctctgata  cggggcctct  540
207      agatgcggcc  gcatgcataa  gcttgagtat  ctatagtgtc  cctaaatagc  ttggcgatct  600
W--> 208      atggtcatag  ctgtttccng  tgtgaaattg  ttatccgctc  acaattccac  acaacatacg  660
W--> 209      anccggaagc  ataaaagtgt  taagcngggg  gtgcctaata  agtgagctaa  ctcacattaa  720
W--> 210      ttgcgttgcg  ctcaactgcc  gcttcnatt  cgggaaactg  tcctgncanc  tgcattaatg  780
W--> 211      aatcnggcc  acccncnggg  aaaaggcgg  809

213 <210> SEQ ID NO: 11
214 <211> LENGTH: 810
215 <212> TYPE: DNA
216 <213> ORGANISM: Glycine max
217 <220> FEATURE:
218 <221> NAME/KEY: misc_feature
219 <222> LOCATION: (1)..(810)
220 <223> OTHER INFORMATION: n is a, c, g, or t/u
221 <400> SEQUENCE: 11
W--> 222      acngccagtg  aattgtaata  cgactcctat  agggcggaatt  ggccaagtcg  gccgagctcg  60
223      aattcgtcga  cctcgaggga  tctataatat  ttctgacagc  taccttttta  ttttagcttgc  120
224      agaggggctg  attttggaga  aaacatcatc  catggtataa  agtccgttta  gattccagct  180
225      attgttcaca  ttcattccctt  acatatgaga  atatccctat  aagctgaaac  taactttttac  240
226      aaacaaacat  gcaccgaacc  attaaagtgt  gacttaatat  ccgggggtata  atgaccttaa  300
227      ttcagaaatt  cacataaata  actaaaagta  agttgtatct  tatttatgtc  tggatttact  360
228      gcacaaacta  aacaaaagtt  tgtggattta  gacataaaaa  ataccaatgc  tgtgtgaaaa  420
W--> 229      taagaaatgg  tggatcatata  gacaagtttc  ttttctgttt  tottttaaatt  gcagtcnaag  480
W--> 230      ccatcangag  gttcatgtaa  ttaaccaaac  tagacgttga  cttttggttt  tatccttttg  540
231      tagaatagca  agcaagtcac  tataaatctg  gccattggga  cagcttagtt  taactccgcg  600
W--> 232      cgcaaatttg  ttaaaatatt  naataataat  atcacctaaa  atcatatttg  tcanttcatt  660
W--> 233      ttgttttang  ttatatcaat  tattattttt  taccttaant  cttttataat  ntcaatgatg  720
W--> 234      ggacccaaaa  aattatcaa  tacnttnaag  onttatttat  tattaattaa  ncctttaatt  780
W--> 235      ataattaaaa  attcnattta  attttttaan  810

237 <210> SEQ ID NO: 12
238 <211> LENGTH: 777
239 <212> TYPE: DNA
240 <213> ORGANISM: Glycine max
241 <220> FEATURE:
242 <221> NAME/KEY: misc_feature
243 <222> LOCATION: (1)..(777)
244 <223> OTHER INFORMATION: n is a, c, g, or t/u
245 <400> SEQUENCE: 12
W--> 246      anangattcg  ncagctatct  aggtgacata  tagaaataact  caagottatg  catgcggccg  60
247      catctagagg  gcccggtatc  ttcggttgaa  gcaaaattga  agtcttttgc  tcatttttat  120
248      caaattcttt  aatgaaaagt  taattacata  aaatatttta  gtagaagcaa  ttttacacag  180
249      ttattattta  aaaaaattac  acagttattc  aataacaaat  tacaatatat  tataaggtta  240
250      taataaatat  tttaaaattc  atataaaaga  tgacttatta  ataagttgat  aatgtaaatt  300
251      ttttacacta  ttaaactcat  ttacgtaat  cttagcgaca  acatactatt  tttttcatga  360

```

**RAW SEQUENCE LISTING ERROR SUMMARY**  
PATENT APPLICATION: US/09/954,773A

DATE: 01/14/2003  
TIME: 14:52:27

Input Set : N:\paola\US09954773A.raw  
Output Set: N:\CRF4\01142003\I954773A.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 385,475,489,513,522,562,577,582,599,601,603,608,620,623,624  
Seq#:2; N Pos. 636,641,643,656,664,673,688,690,692,695,700,701,720,722,725  
Seq#:2; N Pos. 726,732,734,737,740,745,748,750,755,759,761,765,776,779,782  
Seq#:2; N Pos. 785,786,793,797,803,808,810,811  
Seq#:3; N Pos. 354,375,391,396,405,430,431,435  
Seq#:4; N Pos. 46,54,137,144,159,165,170  
Seq#:5; N Pos. 92,445,494  
Seq#:6; N Pos. 1,4,85,127,128,222,336,360,365,397,403,410,419,432,433,443  
Seq#:6; N Pos. 445,448,454,456,461,466,467,469,476,480,482,496  
Seq#:7; N Pos. 1,2,7,9,11,53,84,86,88,91,171  
Seq#:8; N Pos. 525,611,645,655,672,674,682,687,697,703,706,708,712,714,719  
Seq#:9; N Pos. 11,468,480,539,573,582,589,594,601,615,631,647,651,655,657  
Seq#:9; N Pos. 675,677,683,686,688,689,709,714,715,721,727,741,743,754,766  
Seq#:9; N Pos. 772,775,785,786,794,799,801  
Seq#:10; N Pos. 1,2,3,4,5,6,506,619,662,687,747,766,769,785,795,797  
Seq#:11; N Pos. 3,477,487,621,654,669,699,711,744,747,752,771,795,810  
Seq#:12; N Pos. 2,4,11,596,644,702,712,722,724,745,760,775,777  
Seq#:13; N Pos. 3,7,105,119,128,142,159,167,179,181,182,184,185,193,195,217  
Seq#:13; N Pos. 223,233,239,246,258,260,266,278,280,281,300,302,304,324,329  
Seq#:13; N Pos. 331,333,339,353,365,368,370,415,432,439,451,464,474,480,492  
Seq#:13; N Pos. 508,524,531,548,551,554,560,561,589,620,653,663,669,676,704  
Seq#:13; N Pos. 757,759,769,770,775  
Seq#:14; N Pos. 3,20,473,479,610,668,677,678,710,723,772,773,787,792,796  
Seq#:15; N Pos. 551,661,663,691,713,719,773  
Seq#:16; N Pos. 352,374,392,537,570,581,599,607,658,669,673,704,721,746,761  
Seq#:16; N Pos. 771,776,781,795  
Seq#:17; N Pos. 35,167,170,316,322,363,387,491,501,504,521,529,560,563,577  
Seq#:17; N Pos. 599,645,647,648,679,681,686,690,696,697,702,708,725,734,745  
Seq#:17; N Pos. 746,777,778,784,795,798  
Seq#:18; N Pos. 5,8,14,119,294,306,310,325,342,351,360,363,407,420,427,451  
Seq#:18; N Pos. 453,462,464,483,487,490,504,529,561,563,564,574,583,586,603  
Seq#:18; N Pos. 604,612,626,634,642,645,662,718,719,726,734,749,755,765,783  
Seq#:18; N Pos. 796  
Seq#:19; N Pos. 11,18,166,174,199,222,246,268,277,281,304,309,317,326,356  
Seq#:19; N Pos. 360,378,399,410,411,420,421,429,436,461,479,486,496,498,514  
Seq#:19; N Pos. 515,526,536,537,567,574,576,582,591,604,616,618,625,643,659  
Seq#:19; N Pos. 670,679,705,708,710,751,762,771,786,793,802,804,806  
Seq#:20; N Pos. 1,3,11,15,129,152,162,173,181,228,265,293,329,335,339,351  
Seq#:20; N Pos. 363,384,387,396,400,401,421,428,432,462,475,514,522,526,532  
Seq#:20; N Pos. 542,572,574,575,589,603,609,614,636,638,671,687,696,703,708  
Seq#:20; N Pos. 712,714,716,727,730,739,742,748,753,773,780,787

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 01/14/2003  
PATENT APPLICATION: US/09/954,773A      TIME: 14:52:27

Input Set : N:\paola\US09954773A.raw  
Output Set: N:\CRF4\01142003\I954773A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5,6

## VERIFICATION SUMMARY

DATE: 01/14/2003

PATENT APPLICATION: US/09/954,773A

TIME: 14:52:27

Input Set : N:\paola\US09954773A.raw

Output Set: N:\CRF4\01142003\I954773A.raw

L:8 M:270 C: Current Application Number differs, Wrong Format

L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:360  
L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:420  
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:480  
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:540  
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:600  
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:660  
L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:720  
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:780  
L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:300  
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:360  
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:420  
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:120  
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60  
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:420  
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:480  
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:60  
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:120  
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:180  
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:300  
L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:360  
L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:420  
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:480  
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:60  
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:120  
L:159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:480  
L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:600  
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:660  
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:420  
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:480  
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:540  
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:600  
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:660  
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:720  
L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:780  
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:480  
L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:600  
L:209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:660  
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:720  
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:780  
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:420  
L:230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:480



**VERIFICATION SUMMARY**

DATE: 01/14/2003

PATENT APPLICATION: US/09/954,773A

TIME: 14:52:27

Input Set : N:\paola\US09954773A.raw

Output Set: N:\CRF4\01142003\I954773A.raw

L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:600  
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:660  
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:720